

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
1	Station Number	Station Name	Drainage Area (sq. mi.)	Latitude	Longitude	Measurement No.	Type of Indirect	Reach Location	Date	Time (EST)	Peak Gage Height (ft)	Peak Discharge (cfs)	Datum Used For Survey	Approximate Water Surface Slope	Comments
2	01586000	NB Patapsco River at Cedarhurst, MD	56.6	39°30'13.2"	76°53'05.5"	288C	Contracted Opening	Railroad bridge and MD-91 bridge, 1500 ft downstream from gage	June 22, 1972	6:00	20.75	27,800	Arbitrary Datum (HI = 50 ft.)	3.71 ft of fall through bridge; 32.21 ft elevation at approach section, 28.50 ft elevation at contracted section	Marks flagged on June 28, 1972.
3	01586000	NB Patapsco River at Cedarhurst, MD	56.6	39°30'13.2"	76°53'05.5"	N/A	Slope Area and Contracted opening (neither used)	Reach extends about 170 ft upstream of gage to about 380 ft downstream of gage	July 4, 1951	Unknown	9.59	3,510	Gage Datum	0.001846	Computations of 4,300 cfs by contracted opening and 6,370 cfs by slope-area did not verify one another. Neither were used. Peak flow for storm determined by rating extension.
4	01587500	SB Patapsco River at Henryton, MD	64.4	39°21'05"	76°54'50"	26S	Slope-Area	163 ft reach located about 300 ft downstream of bridge and stream gage	September 10, 1950	Unknown	7.88	3050	Gage Datum	0.001534; 0.25 ft of fall in 163 ft reach.	High water marks were flagged over a much longer reach extending from the gage to about 600 ft downstream of the gage.
5	01587500	SB Patapsco River at Henryton, MD	64.4	39°21'05"	76°54'50"	69C	Contracted Opening	Bridge at gaging station	August 13, 1955	Unknown	10.12	3580	Gage Datum	0.00472 (calculated); 0.55 ft of fall over 116.6 ft from approach section ((10.88 ft) to contracted section (10.33 ft)	Peak gage height is based on a high water mark on gage well door.
6	01587500	SB Patapsco River at Henryton, MD	64.4	39°21'05"	76°54'50"	77C	Contracted Opening with Road Overflow	Bridge at stream gage	July 21, 1956	Unknown	19.40	12,100	Gage Datum	0.00741; 1 .0 ft of fall over 135 ft from approach section (20.62 ft) to contracted section (19.62 ft)	Total flow includes some flow over the roadway that bypassed the gage. 9660 cfs past gage plus 2,470 cfs over road = approximately 12,100 cfs
7	01587500	SB Patapsco River at Henryton, MD	64.4	39°21'05"	76°54'50"	193S	Slope-Area	1.1 mile upstream from gage	June 22, 1972	01:00	28.14	26,900	Arbitrary Datum (RM-1= 50 ft.)	0.0023575 (1.82 ft of fall in reach of 772 ft)	Drainage area at reach used for slope-area = 59.9 sq mi. Peak Q measured as 25,600 cfs at measurement site and transferred to gage by draunage area ratio to 0.7 power
8	01589000	Patapsco River at Hollofield, MD	285	39°18'37.1"	76°47'32.7"	252 S.A.	Slope-Area	4,800 ft upstream of gage and 2,500 ft below Daniel's plant	June 22, 1972	Unknown	31.3	80,600	Arbitrary Datum (HI = 50 ft.)	0.001919	Gage was destroyed, high water marks flagged June 27, 1972, survey conducted July 6-8.
9	01589000	Patapsco River at Hollofield, MD	285	39°18'37.1"	76°47'32.7"	533 C	Contracted Opening	Through gage reach, Old Frederick Road Bridge	September 7, 2011	13:00 to 13:15	12.62	19700	Gage Datum	0.5 ft of head through bridge	"Measurement is rated poor", bridge opening type 4,
10	01589300	Gwynns Falls at Villa Nova, MD	32.5	39°20'45.2"	76°43'59.5"	145 C.O.	Contracted Opening	Liberty Road Bridge, 0.5 mile below gage	June 22, 1972	Unknown	21.5	16200	Arbitrary Datum (BM1 = 50 ft.)	0.0131428571 (calculated)	
11	01589300	Gwynns Falls at Villa Nova, MD	32.5	39°20'45.2"	76°43'59.5"	1 C.O.	Contracted Opening	At Essex Road Bridge, upstream of gage	July 21, 1956	Unknown	-	5110	Arbitrary Datum (RP1 = 11 ft.)	0.00502164502 (calculated)	
12		OTHER LOCATIONS IN PATAPSCO WATERSHED													
13	01585500	Cranberry Branch near Westminster, MD	3.29	39°35'36.0"	76°58'03.1"	227C	Culvert Type 4, 6	Double box culvert, 430 ft downstream of gage	September 26, 1975	Unknown	7.47	2200	Gage Datum + 10.0 ft	4.03 ft of head over 147 ft between the culvert entrance (16.93 ft) and the culvert exit (12.90 ft).	
14	01585500	Cranberry Branch near Westminster, MD	3.29	39°35'36.0"	76°58'03.1"	180C	Culvert Type3	Double box culvert, 430 ft downstream of gage	July 9, 1970	Unknown	5.59	1100	Gage Datum + 10.0 ft	1.42 ft of head over 186 ft between the approach section (13.88 ft) and the culvert exit (12.46 ft). Culvert length = 147 ft; Distance between culvert entrance and approach section is 39 ft	
15	01587000	North Branch Patapsco River near Marriottsville, MD	165	39°21'56.0"	76°53'06.0"	99S	Slope-Area	Just upstream from the gage and bridge	November 13, 1937	Unknown	13.92	8240	Gage Datum (BM-4 , standard bronze tablet)	0.0014325 (0.52 ft over 363 ft reach of channel)	
16	01587050	Hay Meadow Branch Tributary at Poplar Springs, MD	0.54	39°20'55.0"	76°06'02.0"	6S	Slope-Area	3 section slope area in reach extneding about 125 ft upstream from gage.	August 19, 1974	Unknown	5.10	65	Gage Datum	0.0189 (Approximately 1.19 ft of fall over 63 ft between cross sections)	Could not use previously developed culvert rating for this measurement because of backwater from a riprap bar above the culvert entrance.
17	01587050	Hay Meadow Branch Tributary at Poplar Springs, MD	0.54	39°20'55.0"	76°06'02.0"	2C	Culvert, Type 1	At culvert on U.S. highway 40	August 27, 1967	Unknown	5.90	190	Gage Datum	4.72 ft of fall over 270 ft between approach section (5.90 ft) and outlet of culvert (1.18 ft)	
18	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	308C	Culvert, Type 2	At culvert on MD-32, 100 ft upstream from former gage site.	June 22, 1972	Unknown	11.0	9700	Gage Datum	7.5 ft of head through culvert (18.5 ft on US end; 11.0 ft on DS end)	
19	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	284C	Contracted Opening	At Springfield State Hospital, 0.4 mi. downstream from gage	July 20, 1956	Unknown	12.0 (+/-)	7380	Arbitrary Datum	Computed drop of 3.38 ft that was well defined	Gage house was washed away by this storm.

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
20	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	N/A	Slope-Area	Through gage reach. Marks flagged and surveyed over reach of about 290 ft.	August 13, 1955	Unknown	6.10 (+/-)	N/A	Gage Datum	Left bank profile--(0.00777) 1.95 ft of fall over 251 ft; Right bank profile--(0.005765) 1.47 ft of fall over 255 ft.	Indirect was never completed because cross sections were never surveyed, although based on the plan view sketch, it looks like locations were selected for the cross sections.
21	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	247S	Slope-Area	Approximately 400 ft upstream from gage house.	September 1, 1952	Unknown	5.39 (HWM in well); 5.61 (outside mark)	942	Gage Datum	0.0228 (1.14 ft of fall over 50 ft between 2 cross sections)	
22	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	226S	Slope-Area	Immediately upstream of gage	September 10, 1950	Unknown	5.76	970 (original); 1080 (revised)	Gage Datum	0.00532 (0.25 ft of fall over 47 ft between 2 cross sections)	Poor measurement--control still somewhat effective, which has an effect on the slope.
23	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	218S	Slope-Area	Through gage reach	March 22, 1950	Unknown	4.16	447	Gage Datum +10.0 ft	0.0102 (0.48 ft of fall over 47 ft between 2 cross sections)	Write up also includes documentation on revisions to indirect from Sept. 10, 1950
24	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	185S	Slope-Area	Through gage reach	August 26, 1947	Unknown	4.88	770	Gage Datum	0.0311 (1.40 ft of fall over 45 ft between 2 cross sections)	Measurement not in Site Visit
25	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	174S	Slope-Area	Through gage reach	August 6, 1946	Unknown	6.04	1400	Gage Datum	0.0048 (0.24 ft of fall over 50 ft between 2 cross sections)	Measurement not in Site Visit
26	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	173S	Slope-Area	Through gage reach	July 24, 1946	Unknown	6.95	2100	Gage Datum	0.0060 (0.30 ft of fall over 50 ft between 2 cross sections)	Measurement not in Site Visit
27	01588000	Piney Run near Sykesville, MD	11.4	39°22'56.0"	76°58'01.0"	22S	Slope-Area	Through gage reach	August 23, 1933	Unknown	6.30	1580	Gage Datum	0.00319 (0.15 ft of fall over 47 ft between 2 cross sections)	Measurement is not in Site Visit. GH for measurement appears to be based on an inside recorded GH or a mark in the well, because the reported GH seems a good bit lower than the high water profile indicates. Marks were flagged for a reach of nearly 640 ft. Folder also includes some high water mark information for floods on June 15, 1932; Aug. 14, 1942; Aug. 6, 1946; Sept. 23, 1946; June 8, 1947; and Jan. 1, 1948
28	01589025	Patapsco River near Catonsville, MD	301	39°15'04.5"	76°45'49.6"	13S	Estimate based on slope-conveyance calculation and runoff-drainage area comparison between surrounding stations, plus some road overflow	Upstream and at bridge on Ilchester Road	September 7, 2011	13:15 +/-	25.17	22000	Gage Datum	0.00345 (0.48 ft of fall over 139 ft of channel reach between approach section and upstream side of bridge)	
29	01589035	Patapsco River near Elkridge, MD	312	39°13'38.4"	76°43'22.8"	13C	Contracted Opening, Type 4, with road overflow	At bridge on Gun Road	September 7, 2011	13:50	21.66	23500	Gage Datum	0.66 ft of fall over 230.5 ft between approach (22.36 ft) and contracted section at downstream side of bridge opening (21.70 ft)	Approximately 22840 cfs went through the bridge and about 630 cfs went over the road.
30	01589100	East Branch Herbert Run at Arbutus, MD	2.47	39°14'24.0"	76°41'31.9"	220C	Culvert, Type 5 with flow over road embankment	At culvert (and roadway) on Tom Day Boulevard	September 6, 1979	Unknown	6.20 (DS); 13.73 (US)	2460	Gage Datum + 10.0 ft	6.95 ft of head over 45.9 ft length of culvert (13.38 ft US end of culvert; and 6.43 ft DS end of culvert)	3.8 inches of rain was recorded at USGS Towson, MD office. Rainfall in excess of 6 inches was recorded on other sections of the Baltimore metro area.
31	01589100	East Branch Herbert Run at Arbutus, MD	2.47	39°14'24.0"	76°41'31.9"	166C	Culvert, Type 1	At culvert on Tom Day Boulevard	December 1, 1974	Unknown	3.67	580	Gage Datum + 10.0 ft	1.32 ft of fall between approach section (14.99 ft) and downstream end of culvert (13.67 ft)	Flood produced about 2.5 inches of rainfall at the gage. About 1.2 inches of rainfall was recorded within 4 hours at the USGS Parkville, MD office, with a total accumulation of 1.8 inches.
32	01589100	East Branch Herbert Run at Arbutus, MD	2.47	39°14'24.0"	76°41'31.9"	1-SA	Slope-Area	350 ft upstream from culvert at Tom Day Boulevard.	July 20-21, 1956	Unknown	5.70	1090	Arbitrary elevation (assumed elevation of 12.50 ft, based on mark set on right DS wingwall of culvert.	0.00497 (0.77 ft of fall over 155 ft of channel reach between cross sections)	
33	01589197	Gwynns Falls near Delight, MD	4.23	39°26'34.6"	76°47'00.3"	117C	Culvert, Type 4	At box culvert at gage on Gwynnbrook Avenue	September 7, 2011	12:35 +/-	8.67	1760	Gage Datum	0.0191 (0.61 ft of fall over 32 ft length of culvert)	Peak GH based on CSG mark at gage on DS end of culvert. It would have been optimum to treat this measurement as a contracted opening, but fallen tree in upstream reach prevented use of an approach section.
34	01589200	Gwynns Falls near Owings Mills, MD	4.90	39°26'16.0"	76°46'57.0"	113C	Contracted Opening with Road Overflow	At road crossing, 0.5 mi downstream from gage. Drainage area at indirect location is 7.38 sq. mi.	June 22, 1972	02:00	5.70	5500	Arbitrary Datum (RM-1 = 20.00 ft). Mark used is chiseled square in left upstream end of bridge handrail.	1.15 ft of fall over 102 ft between approach section (18.55 ft) and downstream end of bridge (17.40 ft).	The indirect write up does not specify which bridge crossing was used for the computations, but it would have to have been Owings Mills Boulevard based on the description of the location. The flow was computed to be 7300 cfs at the measurement site, based on flow through bridge and flow-over-road methods.
35	01589238	Gwynns Falls Tributary at McDonogh, MD	0.03	39°24'01.6"	76°46'13.6"	104S	Slope-Area	Channel reach extending from about 15 ft upstream from the gage to about 30 ft downstream from the gage.	September 7, 2011	11:05 +/-	1.52	52	Gage Datum	0.0320 (1.41 ft of fall over 44 ft length of stream)	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
36	01589240	Gwynns Falls at McDonogh, MD	19.3	39°23'28.0"	76°45'56.0"	2C	Contracted Opening	At bridge on McDonogh Road.	June 22, 1972	Unknown	18.80	14700	Gage Datum	3.95 ft of fall over 185 ft between approach section (18.47 ft) and contracted section (14.52 ft)	Gage operated as a CSG station. A small amount of flow (2-3%) bypassed the bridge and flowed down a railroad cut several hundred yards to the left of the bridge crossing.
37	01589290	Scotts Level Branch at Rockdale, MD	3.23	39°21'41.8"	76°45'42.3"	54C	Culvert Type 2	At culvert at gage on Rolling Road	September 7, 2011	12:50	7.62	2370	Gage Datum	0.03885 (2.37 ft of head through 61 ft length of culvert)	
38	01589305	Powder Mill Run near Locheam, MD	3.64	39°20'06.4"	76°42'39.0"	35S	Slope-Area	Through gage reach--from about 300 ft upstream of gage to about 210 ft downstream of gage	July 23, 2008	21:05	8.12	1420	Gage Datum	0.00334 (1.35 ft of fall over 404 ft of channel reach between cross sections)	
39	01589312	Dead Run near Catonsville, MD	0.79	39°17'45.2"	76°44'38.7"	13C	Culvert, Type 4	At box culvert on Black Friars Road, just downstream of gage.	July 23, 2008	20:35-20:40	7.90	700	Gage Datum	1.11 ft of fall through 65.3 ft length of culvert . Culvert opening was submerged on both ends.	
40	01589315	Dead Run at Woodlawn, MD	2.43	39°18'47.7"	76°43'55.6"	33S	Slope-Area	Through gage reach--from about 175 ft upstream of gage to about 400 ft downstream of gage.	September 7, 2011	11:35 +/-	10.55	2700	Gage Datum	0.00161 (0.65 ft of fall over 408 ft between cross sections)	Four cross sections surveyed--only 3 used for the computation.
41	01589315	Dead Run at Woodlawn, MD	2.43	39°18'47.7"	76°43'55.6"	11S	Slope-Area	Through gage reach--from about 100 ft upstream of gage to about 125 ft downstream of gage.	July 23, 2008	21:00 +/-	8.42	1380	Gage Datum	0.00208 (0.30 ft of fall over 144 ft between cross sections)	
42	01589316	Dead Run Tributary near Woodlawn, MD	0.74	39°19'08.1"	76°45'02.5"	33C and 34C	Culvert, Type 3	At culvert, just upstream of gage on Lord Baltimore Drive	September 7, 2011	11:15	5.60	785	Gage Datum	0.73 ft of fall over 126.5 ft length between approach section and contracted section.	Second computation indicated 720 cfs at peak GH of 5.29 ft. 0.69 ft of fall over 126.5 ft length between approach section and contracted section.
43	01589317	Tributary to Dead Run Tributary at Woodlawn, MD	0.51	39°19'37.2"	76°44'42.5"	26C	Culvert, Type 3	At culvert on Rutherford Road, about 800 ft upstream of gage	September 7, 2011	11:25--11:30	6.19	400	Arbitrary Datum (Starting elevation of 100.00 ft)	0.002754 (0.19 ft of head through 69 ft length of culvert)	
44	01589320	Dead Run Tributary at Woodlawn, MD	1.91	39°19'05.0"	76°44'08.8"	29S	Slope-Area	In reach extending from about 140 ft upstream of the gage to about 330 ft downstream of the gage.	September 7, 2011	11:30	10.79	2190	Gage Datum	0.0050 (0.77 ft of fall over 153 ft between the 3 cross sections)	
45	01589330	Dead Run at Franklintown, MD	5.52	39°18'40.4"	76°42'59.9"	121C	Contracted Opening	Measurement made at bridge on Ingleside Avenue, about 0.5 mi. downstream from the gage.	June 22, 1972	01:30	12.50	7400	Arbitrary Datum	1.89 ft of fall over 100 ft between approach section (42.45 ft) and contracted section (40.56 ft)	Drainage area of 6.10 sq. mi. at the indirect location, vs. 5.52 sq. mi. at the gage. Reported peak stage of 12.50 ft is the peak at the gage location.
46	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	22S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	June 17, 2000	16:45	0.80	9.80	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.0489 (1.075 ft of fall over 22 ft of reach between first 2 cross sections)	
47	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	25S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	August 27, 2000	18:00	0.82	11.1	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.0550 (1.21 ft of fall over 22 ft of reach between first 2 cross sections)	

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
48	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	34S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	February 23, 2001	02:20	1.04	16.9	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.061 (1.34 ft of fall over 22 ft of reach between first 2 cross sections)	
49	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	56S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	August 11, 2001	Unknown (probably between 14:15 and 14:25)	0.90 (+/-)	13.2	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.05773 (1.27 ft of fall over 22 ft of reach between first 2 cross sections)	Peak gage height was likely around 0.90 ft, but occurred between 5 minute data scans.
50	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	59S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	November 25, 2001	16:15	1.18	19.4	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.0564 (1.24 ft of fall over 22 ft of reach between the first 2 cross sections)	
51	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	86S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	July 6, 2003	20:35	0.98	17.7	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.0286 (0.63 ft of fall over 22 ft of reach between the first 2 cross sections)	
52	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	94S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	November 19, 2003	Unknown	1.00	16.6	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	0.0327 (0.72 ft of fall over 22 ft of reach between the first 2 cross sections)	Peak occurred sometime in between 5 minute data scans on the afternoon of Nov. 19, 2003.
53	01589340	Rognel Heights Storm Sewer Outfall at Baltimore, MD	0.03	39°17'59.5"	76°41'24.5"	110S	Slope-Area	Crest-stage gage reach set up in cobble-boulder channel (3 cross sections, 2 CSGs per section), located about 200 ft downstream of the outfall.	July 7, 2004	14:55	1.62	37	Arbitrary Datum (RM-1 = 100.00 ft at upstream right bank CSG base)	Unknown exactly which slope was used.	Unclear documentation on this one.
54	01589351	Maiden Choice Run at Wilkens Avenue at Baltimore, MD	4.42	39°16'32.0"	76°39'59.0"	3S	Slope-Area	Downstream from gage	November 25, 2001	Unknown	6.20	1650	Gage Datum +10.0 ft	0.00574 (based on left bank high water marks)	Minimum amount of information and documentation available for this measurement.
55	01589351	Maiden Choice Run at Wilkens Avenue at Baltimore, MD	4.42	39°16'32.0"	76°39'59.0"	37S	Slope-Area	Downstream from gage	September 23, 2003	Unknown	6.25	1890	Gage Datum + 10.0 ft	0.00673 (based on left bank high water marks)	Minimum amount of information and documentation available for this measurement.
56	0158935180	Gwynns Run at Baltimore, MD	2.5	39°16'41.3"	76°39'07.2"	27S	Slope-Area	250-500 ft downstream of gage at tunnel outlet. Reach ending about 700 ft upstream of mouth and confluence with Gwynns Falls.	September 23, 2003	04:20	8.90	2660	Gage Datum + 10.0 ft	0.01165 (2.83 ft of fall over 243 ft of stream reach between cross sections)	
57	0158935180	Gwynns Run at Baltimore, MD	2.5	39°16'41.3"	76°39'07.2"	25S	Slope-Area	250-500 ft downstream of gage at tunnel outlet. Reach ending about 700 ft upstream of mouth and confluence with Gwynns Falls.	September 4, 2003	00:55	7.80	1680	Gage Datum + 10.0 ft	0.008971 (2.18 ft of fall over 243 ft of stream reach between cross sections)	Much of the Gwynns Run watershed is underground, so the actual drainage area is uncertain. It's a "sewershed" as opposed to a watershed, so drainage area based on topo lines is merely an educated guess.

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58	01589352	Gwynns Falls at Washington Blvd. at Baltimore, MD	65.9	39°16'17.4"	76°38'54.8"	130S	Slope-Area	Approximately 180 to 650 ft upstream from the gage.	August 26, 2012	14:30	11.41	6330	Gage Datum	0.00166 (0.77 ft of fall over 464 ft length of reach)	
59	01589352	Gwynns Falls at Washington Blvd. at Baltimore, MD	65.9	39°16'17.4"	76°38'54.8"	9S	Slope-Area	From gage location, and extending approximately 600 ft upstream.	August 26, 1999	19:30	20.03	23800	Arbitrary Datum (99.99 ft starting elevation)	0.00301 (1.60 ft of fall over 531 ft length of reach)	Subtract 75.766 ft from surveyed elevations to correct to gage datum.
60	01589440	Jones Falls at Sorrento, MD	25.2	39°23'30.0"	76°39'42.0"	465S	Slope-Area	Reach extending from approximately 450 ft upstream of the gage to about 750 ft downstream of the gage.	August 26, 2012	17:30--17:45	11.53	3690	Gage Datum (based on RP-4)	0.00250 (2.02 ft of fall over 808 ft length of reach)	
61	01589440	Jones Falls at Sorrento, MD	25.2	39°23'30.0"	76°39'42.0"	458S	Slope-Area	Reach extending from approximately 350 ft upstream of the gage to about 650 ft downstream of the gage.	September 7, 2011	16:00--16:15	14.08	7950	Gage Datum (based on RM-4)	0.00246 (1.94 ft of fall over 789 ft length of reach)	
62	01589440	Jones Falls at Sorrento, MD	25.2	39°23'30.0"	76°39'42.0"	77S	Slope-Area	Just upstream from gage in reach paralleling Falls Road.	June 22, 1972	05:00	18.11	13800	Gage Datum + 10.0 ft	0.00227 (2.02 ft of fall over 890 ft length of reach)	
63	01589478	Jones Falls at Maryland Avenue at Baltimore, MD	54.9	39°18'33.5"	76°37'09.9"	50S	Slope-Area	Upstream end of reach begins about 70 ft upstream of CSX bridge, about 1200 ft upstream of gage, extending downstream to about 870 ft upstream of gage.	July 7, 2004	17:10	10.21	12200	Arbitrary datum (temporary BM set to 20.00 ft)	0.00715 (2.38 ft of fall over 333 ft length of stream reach)	
64	01589480	Jones Falls near mouth at Baltimore, MD	57.0	39°18'12.0"	76°36'43.0"	21S	Slope-Area	From control section at gage and extending approximately 200 ft upstream.	June 27, 1982	Unknown	8.65	4530	Gage Datum	0.00537 (0.94 ft of fall over 175 ft length of stream reach)	
65	01589480	Jones Falls near mouth at Baltimore, MD	57.0	39°18'12.0"	76°36'43.0"	20S	Slope-Area	From control section at gage and extending approximately 200 ft upstream.	June 16, 1982	Unknown	7.22	3820	Gage Datum	0.00309 (0.54 ft of fall over 175 ft length of stream reach)	
66	01589480	Jones Falls near mouth at Baltimore, MD	57.0	39°18'12.0"	76°36'43.0"	18S	Slope-Area	From control section at gage and extending approximately 200 ft upstream.	June 12, 1982	Unknown	7.74	3950	Gage Datum	0.00366 (0.64 ft of fall over 175 ft length of stream reach)	Station is located at Biddle Street near the mouth of Jones Falls. Drainage area is questionable--published value is 57.0 sq. miles. It's also been reported as 60.4 sq. miles.
67	01589464	Stony Run at Ridgemedede Road at Baltimore, MD	2.20	39°20'22.2"	76°37'32.5"	89S	Slope-Area	Starting about 10 ft upstream of foot bridgeat gage, and extending about 200 ft upstream in length.	April 30, 2014	15:00	5.10	960	Gage Datum	0.0169 (3.22 ft of fall over 191 ft length of stream reach)	
68	01589464	Stony Run at Ridgemedede Road at Baltimore, MD	2.20	39°20'22.2"	76°37'32.5"	1S	Slope-Area	In trapazoidal concrete channel, located 300-500 ft upstream of gage.	July 7, 2004	Unknown	6.64	980	Arbitrary datum	0.00899 (1.16 ft of fall over 129 ft length of stream reach)	Gage not in operation yet at time of flood. Continuous gage was activated in May 2005.
69	01589500	Sawmill Creek at Glen Burnie, MD	4.97	39°10'12.0"	76°37'50.2"	399C	Culvert Type 4 with road overflow	At culvert on MD-648, about 350 ft downstream of gage	August 12, 2014	15:30	7.61	1180	Gage Datum	0.94 ft of head over 48.7 ft length of culvert. Upstream WS = 10.06 ft; Downstream WS = 9.12 ft.	6.3 inches of rainfall between 8 am and 5 pm was recorded at BWI for this storm. Rain was most intense from 12 pm to 2 pm EDT.
70	01589500	Sawmill Creek at Glen Burnie, MD	4.97	39°10'12.0"	76°37'50.2"	382C	Culvert Type 4	At culvert on MD-648, about 350 ft downstream of gage	September 8, 2011	01:30	6.39	400	Gage Datum	0.66 ft of head over 48.7 ft length of culvert. US water surface = 4.46 ft; Downstream WS = 3.80 ft.	
71	01589500	Sawmill Creek at Glen Burnie, MD	4.97	39°10'12.0"	76°37'50.2"	292C	Culvert Type 4	At culvert on MD-648, about 350 ft downstream of gage	September 16, 1999	14:15	5.74	315	Arbitrary datum (Starting elevation of 20.00 ft)	0.59 ft of head over 48.7 ft length of culvert. US water surface = 3.78 ft; DS water surface = 3.19 ft	Although survey was done to arbitrary datum, benchmark RM-1 was tied in at the end of the survey (14.15 ft difference between surveyed elevations and gage datum).

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O
72	01589500	Sawmill Creek at Glen Burnie, MD	4.97	39°10'12.0"	76°37'50.2"	154C	Culvert	At culvert under US 301, 300 ft downstream from gage	September 1, 1952	Unknown	4.77	159	Gage datum (RM-1)	0.305 ft of head over 58.7 ft from approach section (4.04 ft) to contracted section (3.735 ft)	Write up refers to the bridge as US 301, but it appears to be same culvert used in later computations